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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/761,771	01/20/2004	Tomotaka Yokoyama	0524-0136.01	3525	
	7590 08/29/2006			EXAM	EXAMINER	
	Edward D. Manzo Cook, Alex, McFarron, Manzo, Cummings & Mehler, Ltd. 200 West Adams St., Ste. 2850 Chicago, IL 60606			KILIMAN, LESZEK B		
				ART UNIT	PAPER NUMBER	
				1773		
				DATE MAILED: 08/29/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)						
		10/761,77	1	YOKOYAMA ET AL.						
	Office Action Summary	Examiner		Art Unit						
		leszek b. k	iliman	1773						
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)[Responsive to communication(s) filed on									
2a)⊠	☐ This action is FINAL. 2b)☐ This action is non-final.									
3)	secution as to the merits is									
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims										
5)⊠ 6)⊠ 7)□	4) Claim(s) 9-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 9-13 and 23-26 is/are allowed. 6) Claim(s) 14-22 and 27-29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.									
Applicat	ion Papers									
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Priority under 35 U.S.C. § 119										
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
Attachmen	ut(s) te of References Cited (PTO-892)		4) Interview Summary	(PTO-413)						
2) Notice 3) Infor	te of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO/er No(s)/Mail Date with application.		Paper No(s)/Mail Da							

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 14-22,27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe'343 or '465.

Watanabe'343 or '465 teach a manufacture method of a glass substrate for an information recording medium, comprising steps of immersing the glass substrate in a heated chemical reinforcing treatment liquid and subjecting an ion on a glass substrate surface layer to ion exchange with an ion in the chemical reinforcing treatment liquid to chemically reinforce the glass substrate and then treating the surface of the glass with a liquid containing acid. See Watanabe'343, summary of the invention, column 3, lines 45-67, column 4, lines 35-67, column 5, lines 5-67, lines 40-67 for chemical reinforcing step, column 6, lines 1-18 for surface roughness, tables I and II. Watanabe'465, summary of the invention, column 3, lines 30-55, column 4, lines 33-67, column 5, lines 5-67, column 6, lines 1-22, tables I and II.

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Regarding claims 14-22, 27-29 the applied references teach the same AFM measurements to determine surface roughness that is within the claimed values of Rmax. It is well known in the art that surface roughness relates to head crash because of the friction forces (see '343 column 12, lines 57-67). It would have been obvious to one having ordinary skill in the art at the time of the invention to optimize a friction coefficient based on a surface roughness since such would improve magnetic properties of the media.

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The applicants response filed February 14,2006 is hereby acknowledged. Claims 14-22 and 27-29 however, remain unpatentable in view of the above grounds of rejections. The arguments have not been found to be persuasive. The examiner believes that the rejections are still proper and are maintained.

Claims 9-13 and 23-26 have been allowed in view of the prior art of record, because the step of the chemical reinforcing with a liquid containing silicofluoric acid is not thought or suggested.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to leszek b. kiliman whose telephone number is 571-272-1509. The examiner can normally be reached on M-T, 6.30-5.00.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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